

## [54] PREPARATION OF AN ACIDIC BEVERAGE

[75] Inventors: Tamotsu Yokotsuka, Nagareyama;  
Yasuo Aoyama; Tadaaki Kikuchi;  
Shigetaka Ishii; Masaru Matsuura,  
all of Noda, Japan

[73] Assignee: Kikkoman Shoyu Co. Ltd., Tokyo,  
Japan

[22] Filed: Jan. 28, 1974

[21] Appl. No.: 437,320

## Related U.S. Application Data

[63] Continuation of Ser. No. 267,214, June 28, 1972, abandoned, which is a continuation of Ser. No. 114,053, Feb. 9, 1971, abandoned, which is a continuation-in-part of Ser. No. 796,544, Feb. 4, 1969, abandoned.

## [30] Foreign Application Priority Data

Sept. 17, 1968 Japan..... 43-66562

[52] U.S. Cl. .... 426/46; 195/29; 426/52;  
426/190; 426/364; 426/365

[51] Int. Cl.<sup>2</sup>..... A23L 1/20; A23L 2/00

[58] Field of Search ..... 426/364, 41, 49, 212, 52,  
426/190, 46, 365; 195/62, 29

## [56] References Cited

## UNITED STATES PATENTS

3,170,802 2/1965 Fukushima..... 426/46

3,510,402	5/1970	Marshall .....	195/62
3,645,745	2/1972	Magnino, Jr. et al.....	426/364
3,713,843	1/1973	Pour-el et al. ....	426/44
3,761,353	9/1973	Noe et al. ....	426/44
3,843,802	10/1974	Puski .....	426/46
3,846,560	11/1974	Hempenius et al.....	426/46 X
3,852,480	12/1974	Williams .....	426/46

## OTHER PUBLICATIONS

Fujimaki, et al., Applying Proteolytic Enzymes on Soybean, Food Technology, Vol. 22, 1968, (pp. 77-81).

Primary Examiner—David M. Naff  
Attorney, Agent, or Firm—Cushman, Darby & Cushman

## [57] ABSTRACT

An acidic beverage containing 1-4% peptides is prepared by denaturing defatted soybeans, reacting an aqueous mixture of the denatured defatted soybeans with an acid protease at a pH of 2.5 to 6.0 at a temperature from room temperature to 90°C to form peptides until before a ratio of formal-state nitrogen to total nitrogen in a filtrate of the mixture reaches 20%, separating a clear portion from the reaction mixture and adding to the clear portion a beverage additive.

13 Claims, No Drawings